

DERWENT-ACC-NO: 1994-083767

DERWENT-WEEK: 199411

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TITLE: Adjustable rack for electrostatic painting - has frame
suspended above conveyor with mount for crossbars having
stainless steel hooks permanently welded providing
supports for workpieces

INVENTOR: NAGEL, T O

PATENT-ASSIGNEE: TRION IND INC[TRION]

PRIORITY-DATA: 1992US-0903891 (June 25, 1992)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES
MAIN-IPC			
CA 2099094 A	December 26, 1993	N/A	019 B05B
013/02			

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
CA 2099094A	N/A	1993CA-2099094	June 23, 1993

INT-CL (IPC): B05B013/02

ABSTRACTED-PUB-NO: CA 2099094A

BASIC-ABSTRACT:

A rack frame arranged to be suspended from a conveyor system and having
mount
which selectively mounts and allows removal of individual crossbars. Stainless
steel hooks are permanently welded to the crossbars and provide means for
supporting of the workpieces. When the crossbars become heavily layered with
coating material, they may be removed from the frame and burned off in a high

temperature oven without deterioration of the hooks or loss of electrical conductivity.

Necessary burn-off operations are facilitated by easy removability of the crossbar elements, which enable the crossbars to be burned off separately from the rack frames, which need to be burned off less frequently.

ADVANTAGE - Permits the oven to be loaded more compactly and with less tangling of parts. Highly efficient electrical contact is assured by using permanently welded stainless steel elements for the workpiece-supporting hooks, and by using a stainless steel hook element for supporting the rack on the system conveyor.

CHOSEN-DRAWING: Dwg.1/7

DERWENT-CLASS: P42

L. Number	Hits	Search Text	DB	Time stamp
1	16	427/475-486.ccls. and conduct\$3 adj primer and paint\$3	USPAT	2003/06/16 12:49
2	12	(427/475-486.ccls. and conduct\$3 adj primer and paint\$3) and substrate	USPAT	2003/06/16 12:54
3	10	427/\$.ccls. and (metal near6 substrate) with (conduct\$3 near5 primer)	USPAT	2003/06/16 13:10
4	3	("3832226" "4789566" "5242716").PN.	USPAT	2003/06/16 12:57
6	0	3832226.pn. and paint	USPAT	2003/06/16 13:11
7	7	(427/\$.ccls. and (metal near6 substrate) with (conduct\$3 near5 primer)) and (carbon or graphite)	USPAT	2003/06/16 13:12

Day : Monday
Date: 6/16/2003
Time: 12:20:20

PALM INTRANET**Inventor Name Search Result**

Your Search was:

Last Name = MANN

First Name = CARLTON

Application#	Patent#	Status	Date Filed	Title	Inventor Name
<u>10017545</u>	Not Issued	071	12/14/2001	METHOD AND APPARATUS FOR CLEANING ELECTROSTATIC PAINTING HOOKS	MANN, CARLTON
<u>08883921</u>	<u>5857455</u>	150	06/27/1997	METHOD AND APPARATUS FOR CIRCULATING INTERIOR GASES IN AN OVEN	MANN, CARLTON B.
<u>08125004</u>	<u>5351632</u>	150	09/23/1993	TOP FIRED BURN-OFF OVEN	MANN, CARLTON B.
<u>07769934</u>	<u>5189963</u>	150	09/30/1991	COMBUSTIBLE ATMOSPHERE FURNACE CONTROL SYSTEM	MANN, CARLTON B.
<u>06352831</u>	<u>4428122</u>	150	02/26/1982	ROTARY TARGET V-BLOCK	MANN, CARLTON W.
<u>06030964</u>	Not Issued	163	04/17/1979	ROTARY TARGET V-BLOCK	MANN, CARLTON W.

Inventor Search Completed: No Records to Display.

Search Another:	Last Name	First Name
Inventor	<input type="text" value="mann"/>	<input type="text" value="carlton"/>
		<input type="button" value="Search"/>

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L. Number	Hits	Search Text	DB	Time stamp
1	3036	427/185,195,421.ccls. or 118/635.ccls.	USPAT; US-PGPUB	2003/06/16 09:56
2	708	(427/185,195,421.ccls. or 118/635.ccls.) and (hook or hanger or support)	USPAT; US-PGPUB	2003/06/16 09:57
3	30	((427/185,195,421.ccls. or 118/635.ccls.) and (hook or hanger or support)) and (combustible or burn\$3 near2 off or fugitive)	USPAT; US-PGPUB	2003/06/16 09:11
4	1384	(hook or hanger or support) with (combustible or burn\$3 near2 off or fugitive)	USPAT; US-PGPUB	2003/06/16 10:01
5	48	((hook or hanger or support) with (combustible or burn\$3 near2 off or fugitive)) and (427/\$.ccls. or 118/\$.ccls.)	USPAT; US-PGPUB	2003/06/16 09:13
6	43	((hook or hanger or support) with (combustible or burn\$3 near2 off or fugitive)) and (427/\$.ccls. or 118/\$.ccls.) not (((427/185,195,421.ccls. or 118/635.ccls.) and (hook or hanger or support)) and (combustible or burn\$3 near2 off or fugitive))	USPAT; US-PGPUB	2003/06/16 09:21
7	27	("2858265" "2904492" "3029952" "3294668" "3357913" "3981471" "4115083" "4128078" "4181553" "4213418" "4217853" "4527694" "4605988" "4628859" "4715314" "4753014" "4773172" "4872963" "4892750" "5020677" "5084155" "5136971" "5147050" "5264255" "5439120" "5511332" "5524774").PN.	USPAT	2003/06/16 09:14
13	4	((hook or hanger or support) with (combustible or burn\$3 near2 off or fugitive)) and (conduct\$3 near5 primer)	USPAT; US-PGPUB	2003/06/16 09:23
14	630	427/185,195,421.ccls. or 118/635.ccls.	USOCR	2003/06/16 09:23
15	186	(427/185,195,421.ccls. or 118/635.ccls.) and (hook or hanger or support)	USOCR	2003/06/16 09:24
16	0	((427/185,195,421.ccls. or 118/635.ccls.) and (hook or hanger or support)) and (hook or hanger or support) with (combustible or burn\$3 near2 off or fugitive or conduct\$3 near5 primer)	USOCR	2003/06/16 09:25
17	32	paint and (hook or hanger or support) with (combustible or burn\$3 near2 off or fugitive or conduct\$3 near5 primer)	USOCR	2003/06/16 09:30
18	3	paint and (hook or hanger or support) and 427/154-156.ccls.	USOCR	2003/06/16 09:28
19	19	paint and (hook or hanger or support) and 427/154-156.ccls.	USPAT; US-PGPUB	2003/06/16 09:29
20	0	paint and ((hook or hanger or support) with primer) and (combustible or burn\$3 near2 off or fugitive)	USOCR	2003/06/16 09:31
21	0	paint and ((hook or hanger or support) with primer) and (combustible or burn\$3 near2 off or fugitive)	USOCR	2003/06/16 09:31
22	8	paint and ((hook or hanger or support) with primer) and (combustible or burn\$3 near2 off or fugitive)	USPAT; US-PGPUB	2003/06/16 09:33
23	129	paint and (hook or hanger or support) and (combustible or burn\$3 near2 off or fugitive) and electrostatic\$4	USPAT; US-PGPUB	2003/06/16 09:55
24	123	(paint and (hook or hanger or support) and (combustible or burn\$3 near2 off or fugitive) and electrostatic\$4) not (((427/185,195,421.ccls. or 118/635.ccls.) and (hook or hanger or support)) and (combustible or burn\$3 near2 off or fugitive)) not (((hook or hanger or support) with (combustible or burn\$3 near2 off or fugitive)) and (427/\$.ccls. or 118/\$.ccls.)) not (paint and ((hook or hanger or support) with primer) and (combustible or burn\$3 near2 off or fugitive))	USPAT; US-PGPUB	2003/06/16 09:34
25	108	((paint and (hook or hanger or support) and (combustible or burn\$3 near2 off or fugitive) and electrostatic\$4) not (((427/185,195,421.ccls. or 118/635.ccls.) and (hook or hanger or support)) and (combustible or burn\$3 near2 off or fugitive)) not (((hook or hanger or support) with (combustible or burn\$3 near2 off or fugitive)) and (427/\$.ccls. or 118/\$.ccls.)) not (paint and ((hook or hanger or support) with primer) and (combustible or burn\$3 near2 off or fugitive))) and (conduct\$3 or graphite or carbon)	USPAT; US-PGPUB	2003/06/16 09:40
26	40	118/635.ccls.	USPAT; US-PGPUB	2003/06/16 09:47
44	1	2730988.pn.	USPAT; US-PGPUB	2003/06/16 09:48
46	12	2730988.URPN.	USPAT	2003/06/16 09:48
47	587	(hook or hanger or support) with (combustible or burn\$3 near2 off or fugitive)	EPO; JPO; DERWENT	2003/06/16 09:53

48	1	((hook or hanger or support) with (combustible or burn\$3 near2 off or fugitive)) and paint and electrostatic\$4	EPO; JPO; DERWENT	2003/06/16 09:54
49	2	paint and (hook or hanger or support) and (combustible or burn\$3 near2 off or fugitive) and electrostatic\$4	EPO; JPO; DERWENT	2003/06/16 09:55
50	1007	427/185,195,421.ccls. or 118/635.ccls.	EPO; JPO; DERWENT	2003/06/16 09:56
51	23	(427/185,195,421.ccls. or 118/635.ccls.) and (hook or hanger or support)	EPO; JPO; DERWENT	2003/06/16 09:57
52	8	((427/185,195,421.ccls. or 118/635.ccls.) and (hook or hanger or support)) and (coating or paint)	EPO; JPO; DERWENT	2003/06/16 09:58
53	1	5189963.pn.	USPAT	2003/06/16 09:59
54	0	mann-carlton.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/16 10:00
56	12	paint\$3 and electrostatic\$4 and (hook or hanger or support) with (combustible or burn\$3 near2 off or fugitive)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/16 10:03
57	23	("Re33777" "1416865" "2118480" "2221318" "2729191" "2730988" "3109439" "3801369" "3883292" "3909289" "3923653" "3928883" "4069790" "4137344" "4216369" "4394566" "4668358" "4953495" "5024597" "5026431" "5064487" "5133161" "5233795").PN.	USPAT	2003/06/16 10:05